

Report of Analysis

Client:	PSEG	Date Collected:	03/25/25
Project:	Central Ave Substation	Date Received:	03/25/25
Client Sample ID:	TP-8	SDG No.:	Q1648
Lab Sample ID:	Q1648-11	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.1
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
03/27/25 09:55	03/27/25 18:13	PB167350

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	3.07		1	1.40	2.38	mg/kg	FC068426.D
Aliphatic C9-C28	Aliphatic C9-C28	3.65	J	1	1.08	4.75	mg/kg	FC068426.D
Total AliphaticEPH	Total AliphaticEPH	6.72	J		2.48	7.13	mg/kg	
Total EPH	Total EPH	6.72	J		2.48	7.13	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068426.D	1	03/27/25	03/27/25	PB167350

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	3.65	J	1.08	4.75	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	3.07		1.40	2.38	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	22.6		40 - 140	45%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	22.4		40 - 140	45%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1648-11	Acq On:	27 Mar 2025 18:13
Client Sample ID:	TP-8	Operator:	YP/AJ
Data file:	FC068426.D	Misc:	
Instrument:	FID_C	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.097	6.360	3300974	20.336	300	ug/ml
Aliphatic C12-C16	6.361	9.743	1148237	6.827	200	ug/ml
Aliphatic C16-C21	9.744	13.096	1356128	7.907	300	ug/ml
Aliphatic C21-C28	13.097	16.748	1857635	11	400	ug/ml
Aliphatic C28-C40	16.749	21.541	5272554	38.72	600	ug/ml
Aliphatic EPH	3.097	21.541	12935528	84.79		ug/ml
ortho-Terphenyl (SURR)	11.384	11.384	4442845	22.37		ug/ml
1-chlorooctadecane (SURR)	12.826	12.826	3371633	22.62		ug/ml
Aliphatic C9-C28	3.097	16.748	7662974	46.07	1200	ug/ml